CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore.

10th march 2015

Dear Sir,

Sub: Construction of drain and improvements to roads at Venkatala lake view layout in ward no. 01 yelahanka sub division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560 027
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drain and improvements to roads at Venkatala lake view layout in ward no: 01 yelahanka sub division.
Name of Agency	Sri. N. Rajanna.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm^2
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	CC-Work	10/02/2015	10/03/2015	28	8.19	480	**21.33**	**21.04**
2					8.17	465	**20.67**	
3					8.18	475	**21.11**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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Lab Incharge
Civil Tech Labs

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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore.

07th February 2015

Dear Sir,

Sub: Testing of Reinforcement steel bars.

As requested, tests on physical properties were carried out for the Reinforcement steel bars Sample supplied by you, for the work of **'Construction of drain and improvements to roads at Venkatala lake view layout in ward no. 01 yelahanka sub division.'**

Please find the enclosed Test Report of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

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Ph: 080 - 41142867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drain and improvements to roads at Venkatala lake view layout in ward no. 01 yelahanka sub division.
Name of the Agency	Sri. N. Rajanna.
Date of Testing	07/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	418	415	Satisfactory
6	U T S (N/Sq.mm)	522	485	Satisfactory

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4. The results are based on the test conducted on samples supplied by the client.

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T-2654

To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP, Bangalore.

02nd March 2015

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam Sample supplied by you, for the work of **'Construction of drain and improvements to roads at Venkatala lake view layout in ward no. 01 yelahanka sub division.'**

Please find the enclosed Test Report of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

TEST ON WMM MIX

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drain and improvements to roads at Venkatala lake view layout in ward no. 01 yelahanka sub division.
Name of the Agency	Sri. N. Rajanna.
Date of Testing	02/03/2015
Reference	MORTH Table 400-11

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	Satisfies Requirements
45	95-100	99.2	
22.4	60-80	73.6	
11.2	40-60	52.4	
4.75	25-40	35.3	
2.36	15-30	23.7	
0.6	8-22	15.2	
0.075	0-8	6.1	

Note:

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TEST REPORT

GRADATION TEST ON SEMI DENSE BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drain and improvements to roads at Venkatala lake view layout in ward no. 01 yelahanka sub division.
Name of the Agency	Sri. N. Rajanna.
Date of Testing	10/03/2015
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-15 for SDBC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
13.2	100	**100**	**Satisfies the requirements**
9.5	90-100	**98.2**	
4.75	35-51	**46.7**	
2.36	24-39	**36.4**	
1.18	15-30	**24.2**	
0.3	9-19	**15.4**	
0.075	3-8	**7.1**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

TEST ON THE DETERMINATION OF BITUMEN CONTENT ON SEMI DENSE BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of drain and improvements to roads at Venkatala lake view layout in ward no. 01 yelahanka sub division.
Name of the Agency	Sri. N. Rajanna.
Date of Testing	10/03/2015

A)

Sl. No.	Test	Test Method	Technical Reference
1	Extraction of mineral aggregate	Test Method A (Centrifuge Method)	ASTM: D2172/ D2172M-11
2	Determination of amount of mineral matter/fines in the extract	Ashing Method	

B)

Specification: As Per MORTH (4th Revision) Table 500-15, Bitumen Content for SDBC Grade-2 is MIN 5%		
Sl. No.	**Description**	**Values**
1	Weight of bituminous mixture before extraction test, W_1 g	2000
2	Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1886.2
3	Weight of mineral matter in the total volume of extract (by ashing), W_3 g	12.7
4	Total weight of aggregate in the bituminous mixture, W_4 g = (W_2 +W_3) g	1899
5	Total weight of Bitumen extracted from the mixture, W_5 g = (W_1-W_4) g	101
6	Bitumen content in %, (W_5/W_1) %	5.05

Remarks	**Satisfies the requirements.**

Note:

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AE.
AEE

Lab Incharge
Civil Tech Labs

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